

Serial No.: 09/408,091
Group Art Unit: 3763

Patent
14363-0037

IN THE CLAIMS

Please cancel claims 1-5, 7, 8, 11-17, 20 and 21.

- C1
1. (Canceled) A multi-component sealant applicator comprising:

a dual catheter for delivering sealant; and

a mixing volume at a distal end of the dual catheter for mixing components of a multi-component sealant prior to discharge from the distal end of the catheter.
 2. (Canceled) An applicator according to claim 1 comprising a dual catheter, each catheter communicating with one of a pair of fluid sealant agent sources.
 3. (Canceled) An applicator according to claim 1 wherein one catheter is movably mounted with respect to the other.
 4. (Canceled) An applicator according to claim 1 wherein one catheter is mounted for longitudinal movement within the other.
 5. (Canceled) An applicator according to claim 1 comprising a clearing system to clear undesired material from the mixing volume or the vicinity of the mixing volume.
 6. (Allowed) A multi-component sealant applicator, comprising:

a dual catheter for delivering sealant, each catheter communicating with one of a pair of fluid sealant agent sources;

a mixing volume within the dual catheter for mixing multiple components of a multi-component sealant prior to discharge from a distal end of the catheter; and

a clearing system to clear undesired material from the mixing volume or the vicinity of the mixing volume, wherein one catheter is mounted for longitudinal movement within the other and the inner catheter is usable as a plunger to remove clogs.

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7. (Canceled) An applicator according to claim 2 comprising a stabilizer member to locate one catheter with respect to the other.

8. (Canceled) An applicator according to claim 4 comprising a stabilizer member to locate one catheter with respect to the other wherein the stabilizer member comprises ring disposed in the outer catheter around the inner catheter and provided with openings for the passage of sealant component.

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9. (Allowed) A multi-component sealant applicator comprising:

a dual catheter for delivering sealant, each catheter communicating with one of a pair of fluid sealant agent sources;

a mixing volume within the catheter for mixing components of a multi-component sealant prior to discharge from a distal end of the catheter; and

a reciprocal drive mechanism proximally coupled with the dual catheter to move one catheter longitudinally with respect to the other.

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10. (Allowed) A multi-component sealant applicator comprising:

a dual catheter for delivering sealant, each catheter communicating with one of a pair of fluid sealant agent sources;

a mixing volume within the catheter for mixing components of a multi-component sealant prior to discharge from a distal end of the catheter; and

a reciprocal drive mechanism proximally coupled with the dual catheter to move one catheter longitudinally with respect to the other, the drive mechanism comprising a ratchet and pawl.

11. (Canceled) An applicator according to claim 2 provided with graduated markings to indicate the relative position of one catheter with respect to the other.

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12. (Canceled) An applicator according to claim 8 comprising a clot clearing mechanism operative to move the stabilizer ring into engagement with a clot to be cleared.

13. (Canceled) An applicator according to claim 12 wherein the clot clearing mechanism comprises a manually actuatable trigger.

14. (Canceled) An applicator according to claim 2 wherein the dual catheters have distal tips resiliently deformable to expel clots.

15. (Canceled) An applicator according to claim 2 comprising a cover to close the distal end of the dual catheter.

16. (Canceled) An applicator according to claim 4 wherein the inner catheter comprises multiple lateral openings in the vicinity of its distal end for flow of a sealant component to provide a mixing volume in the outer tip.

17. (Canceled) An applicator according to claim 16 wherein the end of the inner catheter is closed.

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18. (Allowed) A multi-component sealant applicator comprising:

a dual catheter for delivering sealant, each catheter communicating with one of a pair of fluid sealant agent sources, wherein the proximal ends of the catheter are coupled to sources of sealant components, one catheter being coupled through a flexible gasket allowing for relative movement of the catheters and providing a fluid seal; and

a mixing volume within the catheter for mixing components of a multi-component sealant prior to discharge from a distal end of the catheter.

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19. (Allowed) A method of applying a multi-component sealant through a catheter to anatomical surfaces, comprising:

flowing multiple sealant components through a longitudinally compartmented catheter; and

mixing the components within a distal end of the catheter immediately prior to discharge.

20. (Cancel) A multi-component sealant applicator comprising:

an inner catheter positioned coaxially within an outer catheter, the inner and outer catheters each configured for delivering one or more sealant components; and

a mixing volume at a distal end of the inner and outer catheters for mixing the one or more sealant components prior to discharge from the distal end of the inner and outer catheters.

21. (Cancel) A multi-component sealant applicator comprising:

an inner catheter defining a first area, the inner catheter configured for delivering one or more sealant components;

an outer catheter defining a second area, the second area capable of receiving the first catheter therein and configured for delivering one or more sealant components;

a mixing volume at a distal end of the inner and outer catheters for mixing the one or more sealant components prior to discharge from the distal end of the inner and outer catheters.